

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
13 July 2006 (13.07.2006)

PCT

(10) International Publication Number  
**WO 2006/072927 A1**

(51) International Patent Classification<sup>7</sup>: **C10L 1/20**, 10/00

(21) International Application Number:  
PCT/IL2005/000058

(22) International Filing Date: 16 January 2005 (16.01.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/536,223 14 January 2004 (14.01.2004) US

(71) Applicant (for all designated States except US): **SOREQ  
NUCLEAR RESEARCH CENTER** [IL/IL]; Nahal  
Soreq, 81800 Yavne (IL).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **GROF, Yair** [IL/IL];  
11/1 Vilkomitz Street, 76448 Rehovot (IL).

(74) Agent: **KLEIN, David**; Beit HaRof'im, 18 Menuha VeNa-  
hala Street, Room 27, 76209 Rehovot (IL).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: FUEL ADDITIVE COMPRISING AN ALKYL HALIDE

(57) Abstract: A method including using an alkyl halide, such as but not limited to, tetrabromoethane, as a fuel additive to a fuel to increase completeness of combustion of the fuel.



**WO 2006/072927 A1**